

IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (original) A method of inducing an adaptive immune response in a patient to a target antigen comprising administering to said patient a flagellin protein, or a peptide fragment thereof, in an amount effective to induce said response.
2. (original) A method according to claim 1 wherein the flagellin or peptide fragment thereof is capable of directly inducing the dendritic cell adaptive immune response.
3. (previously presented) A method according to claim 1 wherein dendritic cell maturation is increased.
4. (previously presented) A method according to claim 1 wherein the flagellin or peptide fragment thereof is administered via the mucosal route.
5. (previously presented) A method according to claim 1 wherein the flagellin or peptide fragment thereof is administered orally or intranasally.
6. (previously presented) A method according to claim 1 wherein the flagellin protein includes at least one of the conserved regions of the N terminal sequence and the C terminal sequence of flagellin.
7. (currently amended) A method according to claim 1 wherein the flagellin protein includes at least one of the conserved regions of residues 1-190 and 354-494 of S. [[S.]] *typhimurium* as shown underlined in Figure 8 herein.
8. (previously presented) A method as claimed in claim 1 wherein the flagellin protein or peptide fragment and the target antigen are co-administered.

9. (original) Use of a flagellin protein or peptide fragment thereof in the manufacture of a medicament for the induction of an adaptive immune response.

10. (original) Use as claimed in Claim 9 characterised in that the medicament is for inducing recruitment of immature dendritic cells in mucosal vaccination such as to induce an adaptive immune response.

11. (currently amended) Use as claimed in Claim 9 ~~above~~ characterised in that the medicament is an adjuvant.

12. (original) A flagellin protein or peptide fragment thereof for use in therapy characterised in that the protein or peptide fragment is truncated, mutated or has deletions therein which allow it to retain its ability to induce the immune response.

13. (original) A flagellin protein or peptide fragment as claimed Claim 12 characterised in that it retains the ability to bind to intestinal or epithelial cell flagellin receptors and retain immune signalling.

14. (currently amended) A flagellin protein or peptide fragment as claimed in Claim 12 characterised in that the flagellin protein includes at least one of the conserved regions of residues 1-190 and 354-494 of *S. typhimurium* ~~*S. typhimurium*~~ as shown underlined in Figure 8 herein.

15. (currently amended) An adjuvant composition comprising a flagellin protein or peptide fragment thereof as claimed in Claim 12 together with a pharmaceutically acceptable carrier, excipient or diluent, ~~or~~ in sterile pyrogen free form.

16. (original) A vaccine composition comprising an adjuvant composition as claimed in claim 15 and a target antigen.